

8. Acceptance Sampling—Attributes:

U.S. Government Spec, MIL STD 105B; Normal, tightened and reduced sampling; Inspection levels; Other sampling plans; Multiple, sequential and continuous plans.

9. Machine and Process Capability:

Machine or process capability study; Addition of tolerances; Comparison of specification and natural tolerances.

10. Organization of Quality Control and Cost of Quality:

Objectives of a Q.C. operation; Prevention of defects; Organization of the Q.C. function; Responsibilities of a Q.C. group; Requirements for Q.C. manager, supervisor, analyst, inspector; Estimating costs of scrap rework; Defects, etc.

LECTURES: 6—10

LECTURER:

Mr. S. Brodsky, P. Eng.,
Member, A.S.Q.C.,
Quality Control Engineer,
Canadian General Electric Co.

Text:

State University of Iowa,
Quality Control Training Manual.



UNIVERSITY OF TORONTO
UNIVERSITY EXTENSION

Session 1960-61

Course in

**INTRODUCTION TO
QUALITY CONTROL**

in co-operation with the
TORONTO SECTION,
AMERICAN SOCIETY FOR QUALITY CONTROL

INTRODUCTION TO QUALITY CONTROL

Tuesdays

10 Lectures

This course is designed for those people in industry who are involved in the recording and analysis of the charts and forms which form the basic data of a Quality Control operation. It is concerned with the statistical methods used to record and control variation in a process and will illustrate the many advantages that Quality Control techniques make possible. Basic mathematics, necessary for the utilisation of these methods will be reviewed as required.

One of the Quality Control training manuals which includes the various forms and charts, in actual use in Industry, will be used as course material.

Minimum Requirements:

Grade XII and a familiarity with production and inspection methods in manufacturing plant or industry.

COURSE CHAIRMAN:

Mr. H. C. Hilditch,
Senior Member, A.S.Q.C.,
Specialist, Canadian General Electric Co.

TIME: 7:30 p.m. Beginning October 11th.

PLACE: Room 2034, Wallberg Building.

FEE: \$20.00.

Registration:

By mail or in person at Room 207, 65 St. George Street, 9 a.m. to 5 p.m. daily, except Saturdays. Information may be obtained by telephoning WA. 3-6811, locals 301, 304, 526, 527. In order to accommodate students and enable them to enrol during the evening, registrations will be taken:

Monday, September 12th

Monday, September 19th

from 7:30 to 9 p.m. in the Wallberg Building, corner of St. George and College Streets.

PROGRAMME

1. Introduction to Quality Control:

What is statistical quality control? Benefits to be obtained from statistical methods; Review of arithmetic; Nature of variations; What is Quality? Samples, Averages, Ranges, Tools of S.Q.C. Quincunx.

2. Control Charts:

What are control charts, and why are they used? Construction of average and range charts; Data sheets; Analysis of the average and range chart; Control limits; Factors for control charts; Chart simulator.

3. Control Charts:

Interpretation of average and range charts; Constant cause systems; Function of control limits; Assignable causes.

4. Histograms and the Normal Curve:

Frequency distributions; Histograms; Standard deviation; Comparisons of processes with specifications; Averages v. individuals.

5. Control Charts for Attributes:

What are attributes? Types of attribute charts. Object of attribute charts; The percent-defective chart; Control chart limits; Defects and defectives.

LECTURES: 1-5

LECTURER:

Mr. P. Goddard, P.Eng.,
Member, A.S.Q.C.,
Manager, Scripto of Canada.

6. Control Chart for Attributes:

Number defective charts; Charts for number of defects per unit; Control chart limits.

7. Acceptance Sampling—Attributes:

Acceptable quality level; Operating curves; Consumers and producers risks; Average outgoing quality; Single and double sampling; Dodge-Romig tables; Average outgoing quality limit and lot tolerance percent defective plans.